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PUBLICATIONS INDEXED AT THE SECTION OF NEMATOLOGY

January 1 to November 15, 1957

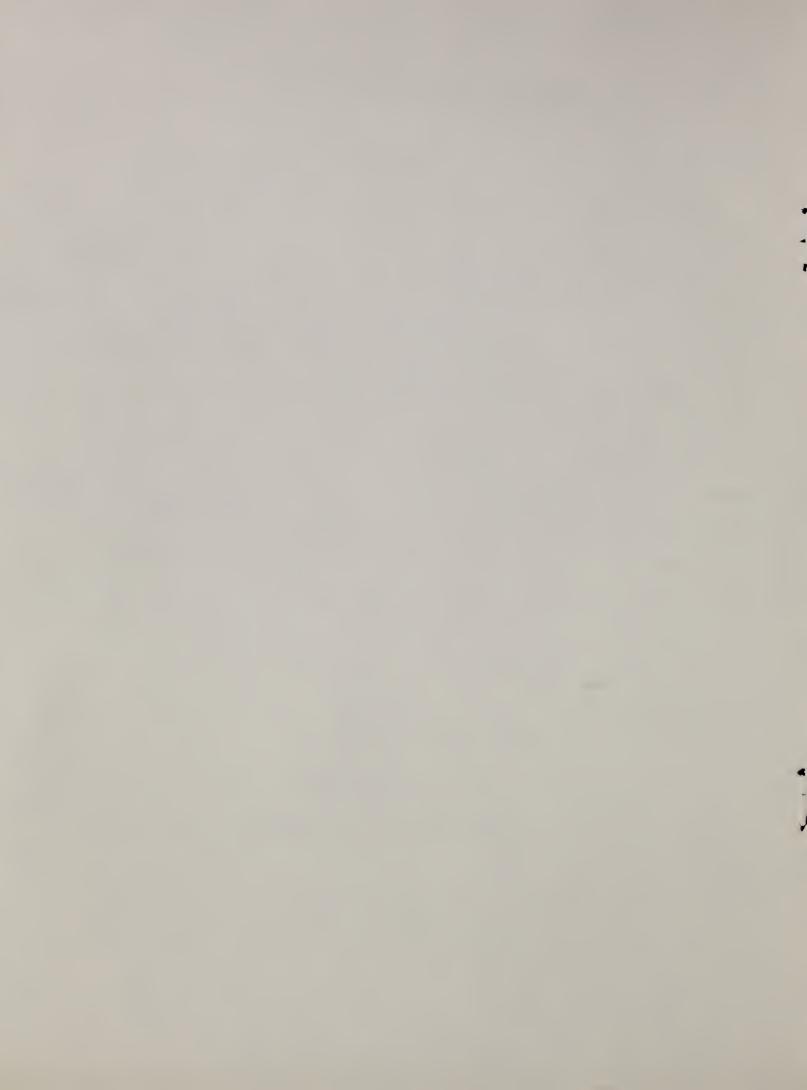
This is a list of 537 publications indexed at the Nematology Section,
Crops Research Division, U. S. Department of Agriculture, between January 1
and November 15, 1957. With a few exceptions, all relate to the work of the
Nematology Section. This is principally on nematode parasites of plants,
but also includes nematode parasites of insects and other invertebrates, the
"free-living" nematodes of soil and other habitats, and the nematodes of
fresh and marine waters.

Not all the papers were published in 1957; many were published in previous years but did not reach the Section for indexing until 1957. Obvious-ly also, many papers published in 1957 are not included.

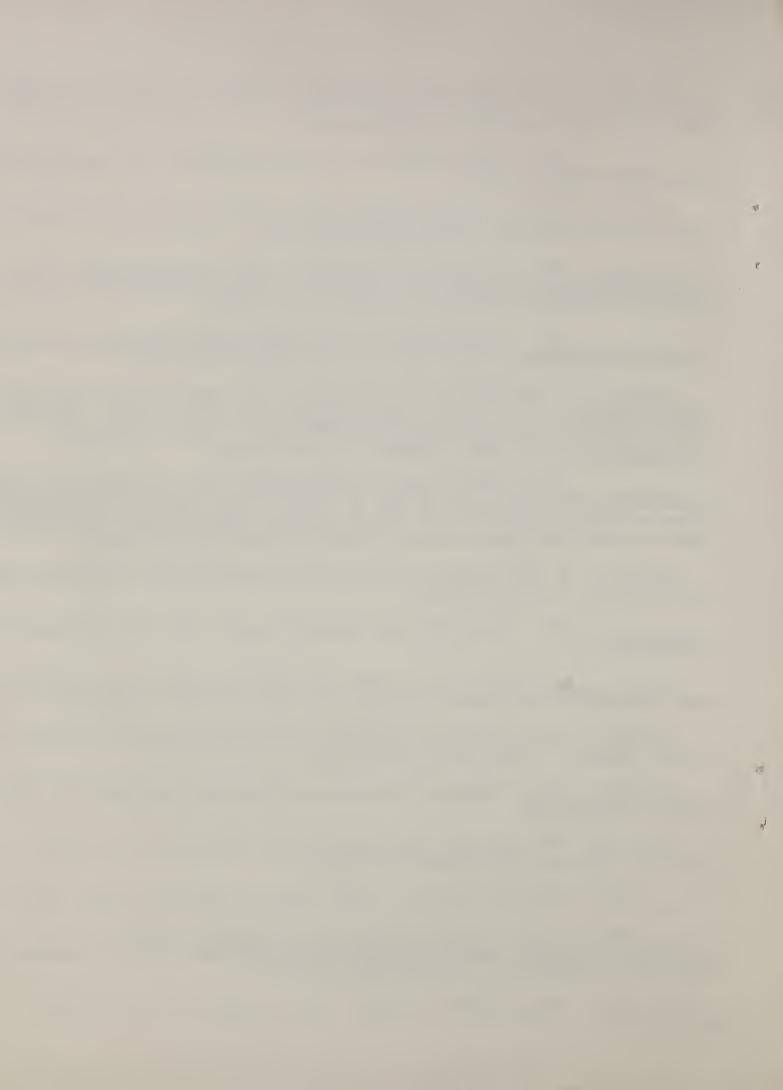
No special effort was made to indicate contents of papers published in widely circulated journals. Unless the title gives some indication, a short note on the contents has been added for papers published in less accessible journals. For many papers only abstracts were seen, others are listed from such sources as the Bibliography of Agriculture.

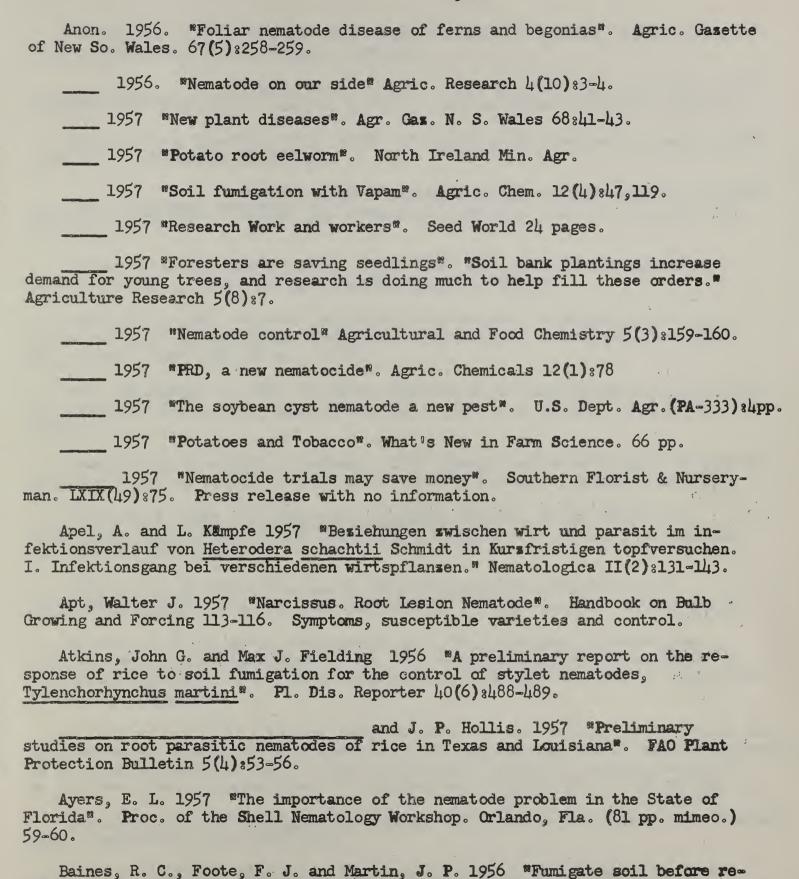
Arrangement is alphabetically by authors.

With the exception of papers published by employees of the Nematology Section, papers listed herein are NOT AVAILABLE from the Nematology Section. It is suggested that requests for loan of papers be sent to the Regional Libraries of the U.S.D.A., or to cooperating libraries at various State Universities.



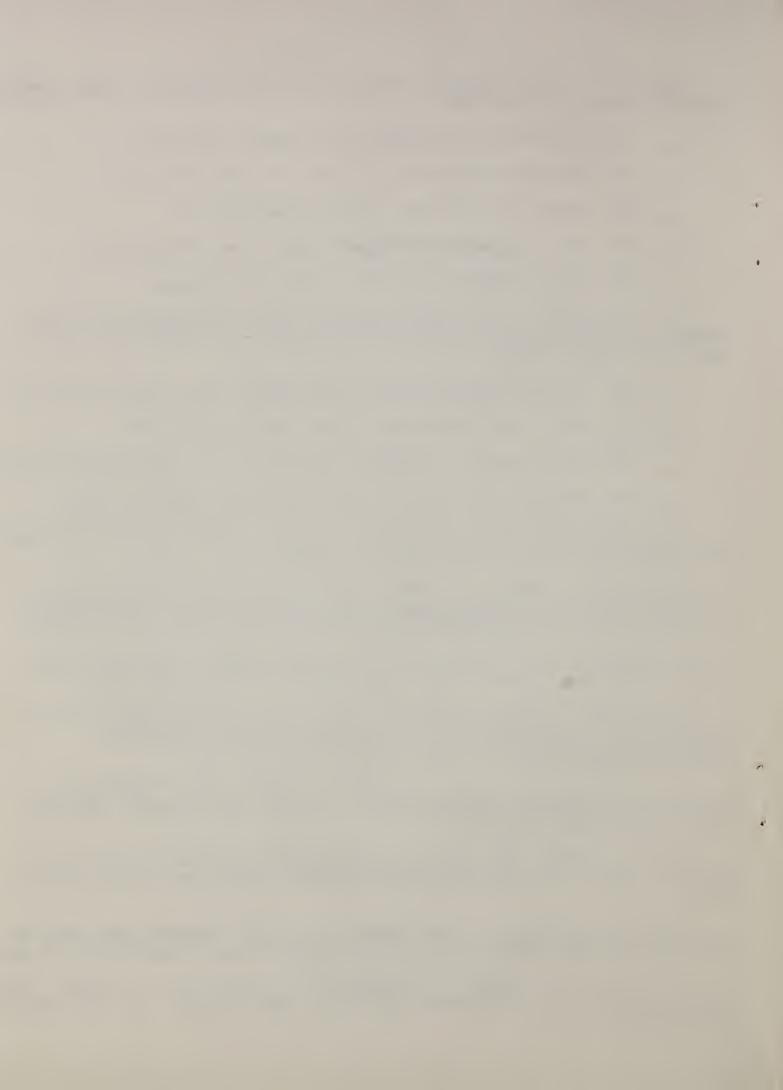
- Ahlberg, 0. 1955 *Look out for the potato nematode—a danger to the potato crop. (In Swedish). Tradgardstidningen 27(4):18,28-29. Ahlberg gives a brief description of the nematode attacks on potatoes.
- 1956 **Observations on the nematode problem.** (In Swedish) Nord. Jordbriorsk. 38(3/4):399-402.
- Allen, M. W. 1957 *A review of the nematode genus Trichodorus with descriptions of ten new species.* Nematologica 2(1):32-62.
- 1955 MA review of the nematode genus Tylenchorhynchus^M. Univ. of Calif. Publications in Zoology. 61(3):129-166, 12 figs. 37 species are briefly described and figured; among them being 22 new to science.
- 1957 MA new species of the genus Dolichodorus from California (Nematoda: Tylenchida). Proc. Helminthol. Soc. Wash. 24(2):95-98.
- Allgen, C. A. 1954 "Weber eine bemerkenswerte neue Stidsee-Art der Nematodengattung Sabatieria de Rouville, S. heterospiculum von Stid-Georgien". Kongelige Norske Videnskabers Selskabs Forhandlinger 26(2):4-6. Allgen describes S. heterospiculum n. sp. a marine nematode from So. Georgia.
- 1954 *Veber einmen bermerkenswerten Fall von Wundheilung in der Oncholaimiden-Cattung Viscosia de Man. Yr. 1953*. Kongelige Norske Videnskabers Selskabs Forhandlinger 26(3):7-9. Allgen summaries some published descriptions of nematodes which have shown evidence of bearing wounds which have healed.
- Allison, J. L. 1956 "Rotate to control stem nematode disease of alfalfa." Res. and Farming (N. C. Sta.) 15(2):14.
- 1955 Nematodes and grassland farming. Pl. Dis. Reporter 39 (5) 8343-344.
- and Sasser, J. N. 1956 The nematode problem in the southeast-panel discussion. So. Pasture & Forage Crop Impr. Conf. Rpt. (13):54-55.
- Andersen, S. 1956 "Collection of cysts of Heterodera major and estimation of the cyst content." Nematologica 1(4):303-306.
- Andrassy, I. 1956 "Sässwasser-Nematoden aus Franzüsisch-West-Afrika". Opuscula Zoologica 1(1-4)83-18.
- Anon. 1955 "External root nematodes (sting and awl nematodes)." Florida Agric. Exp. Stations, Ann. Report, 335 pages.
 - 1955 "New plant diseases". Agric. Casette of New South Wales. 66(11):604.
- 1955 "La lutte contre quelques ennemis du tabac au Lomami. II. Les nematodes des racines." Bull. de l'Institut National pour l'Etude Agronomique du Congo Belge. 4(4):267-273. Experiments by chemicals.
- 1955 "Migratory root eelworms" N.A.A.S. Quarterly Review, London. (30):261-263.



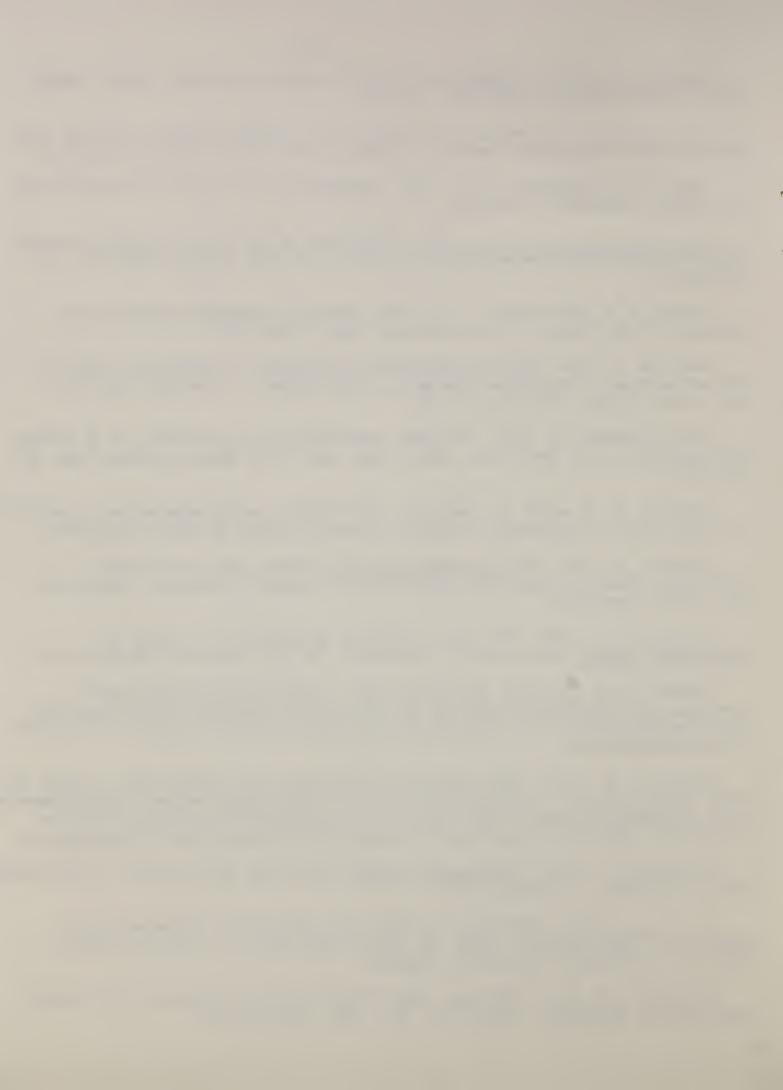


R. H. Small, T. A. DeWolfe, J. P. Martin and L. H. Stolsy. 1957 "Control of the citrus nematode and phytophthora spp. by vapam". Pl. Dis. Reporter 41(5):405-414.

planting citrus for control of the citrus nematode. Citrus Leaves 36(10):6-8,24,27.



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- R. H. Small, T. A. DeWolfe, J. P. Martin, and L. H. Stolsy 1957 "Nematode and Phytophthora control by Vapam". Citrus Leaves 37(5):6-8, 24,32-33.
- Bald, J. G. & Chandler, P. A. 1955 "Propagation from scales of treated croft lily bulbs." Phytopath. 45(12):693.
- 1957 "Reduction of the root rot complex on croft lilies by fungicidal treatment and propagation from bulb scales." Phytopath. 47 (5):285-291.
- Barham, W. S. and Sasser, J. N. 1956 "Root knot nematode resistance in tomatoes." (Abs.) Assoc. So. Agr. Workers. Proc. 53:150-151
- Basir, M. A. 1956 Oxyuroid Parasites of Arthropoda, a monographic study, 1. Thelastomatidae, 2. Oxyuridae. Zoologica, Orig.—Abhandl. Gesamtgeb. Zool. 38. Bd., 2. Lief., Heft 106, 79 pp., 13 Pl.
- Bazan De Segura, C. 1956 Creciente importancia de los nematodes en el cultivo del algodonero en el Peru. Lima. Estac. Expt. Agr. de La Molina. Informe Mens. 30 (345):1-3.
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- Bergeson, G. B. 1955 "The use of systemic phosphates for control of Ditylenchus dipsaci on alfalfa and daffodils". Pl. Dis. Reporter 39(10):705-709.
- Besemer, A. F. H. and M. Costenbrink 1955 "Phytotoxische en Nematicide Nawerking van Grondontsmettingen met DD (with English summary)" Mededelingen van de Iandbouwhogeschool en de Opsoekingsstations van de Staat te Gent XX (3):279-290. D-D and Chloropicrin.
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- Bingefors, S. 1956 *Ditylenchus dipsaci resistance of red clover. (In Swedish) Nord. Jordbrforsk. 38(3/4):407-409.
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Brande, van den, J., R. H. Kips and J. D⁰Herde 1955 *Doding van Heterodera rostochiensis-system op begonia-en gloxinia-knollen* Mededelingen van de landbouwhogeschool en de opsoekingsstations van de staat te Gent. XX(3):271-278. Chemical treatments.

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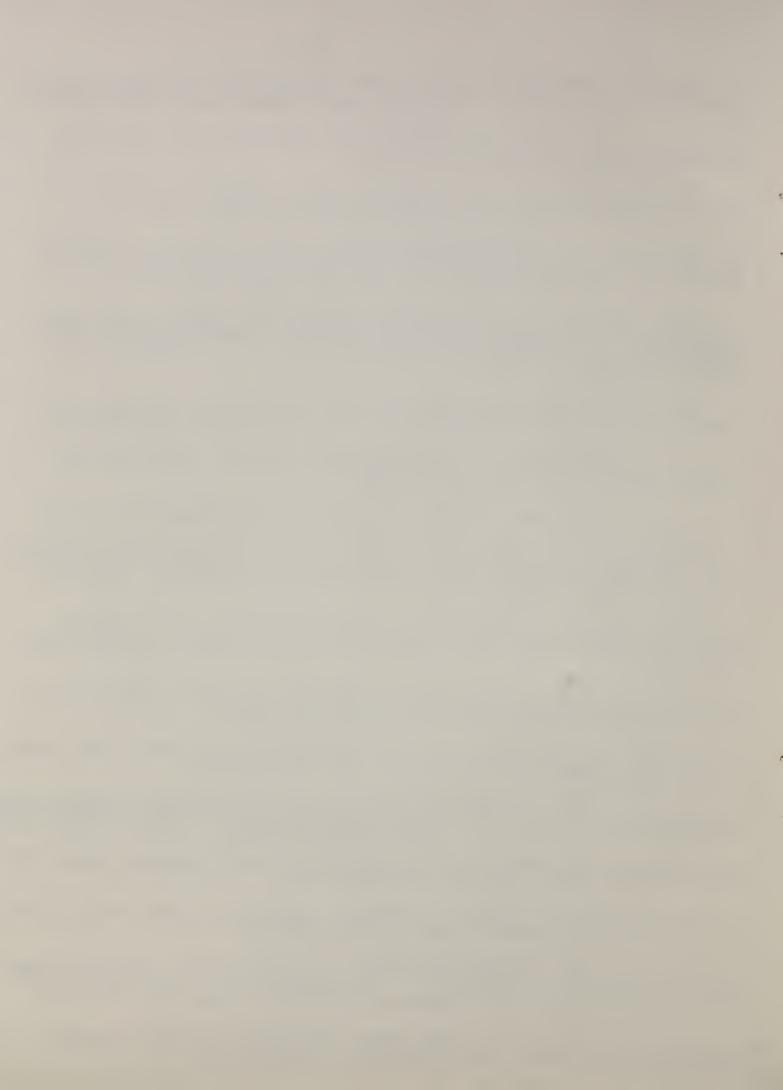
1956 "A seed-borne attack of chrysanthemum celworm (Aphelenchoides ritzema-bosi on the annual aster (Callistephus chinensis)" J. Helminth. XXX(2/3):145-8.

1956 *Damage to Henbane by stem eelworm Ditylenchus dipsaci (Kuhn, 1857) Filipjev, 1936 J. Helminth. XXX(2/3):143-144

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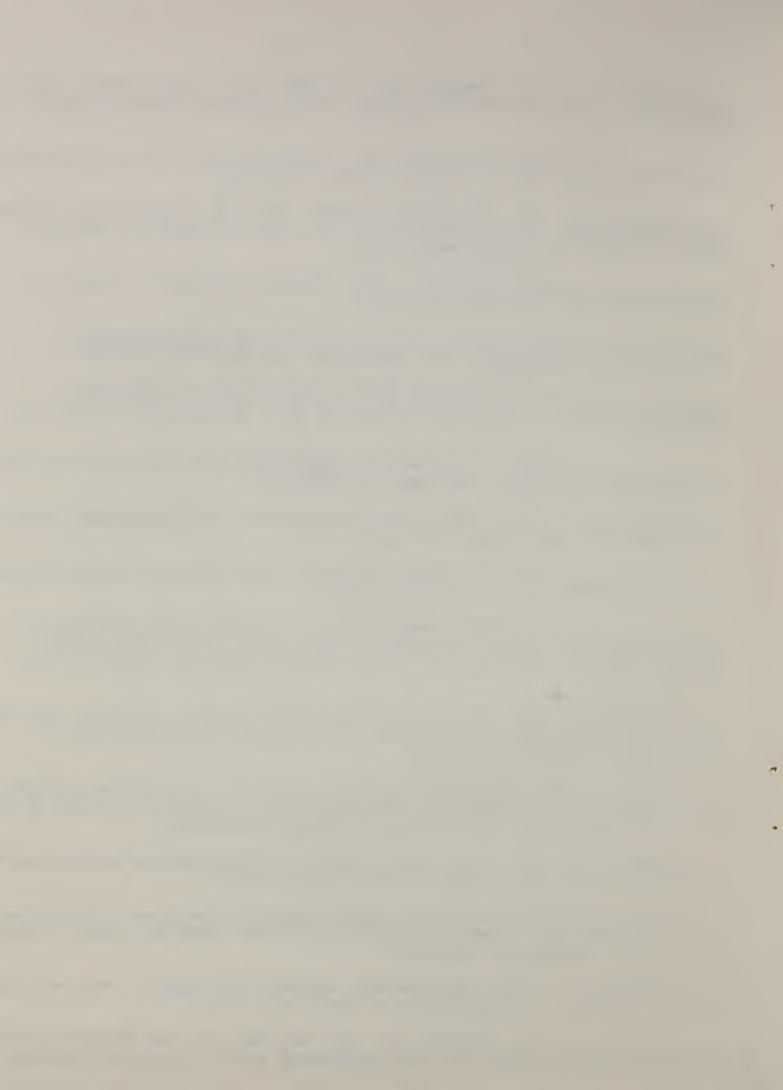
1957 *Incerne stem eelworm (Ditylenchus dipsaci), a serious threat to lucerne growing* Dairy Shorthorn J. 26(6):268,286.



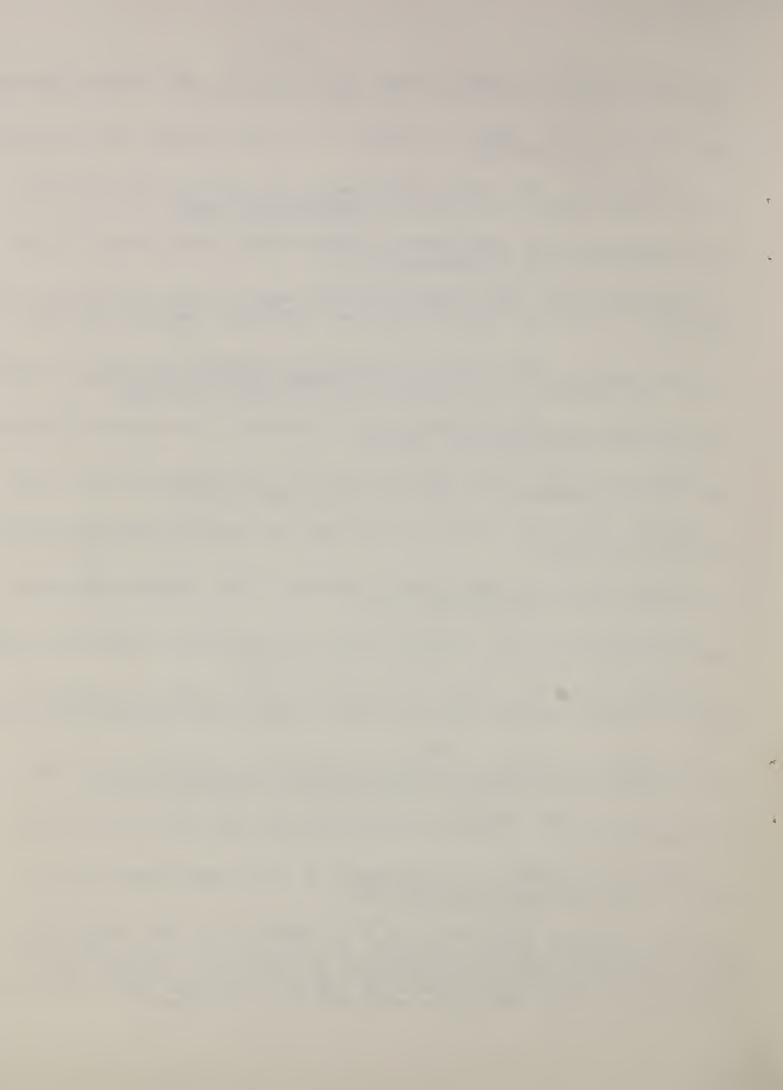
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- Brown, G. L. 1956 "Tylenchorhynchus lenorus, n. sp. (Nematoda: Tylenchida) Associated with the roots of wheat. Proc. Helminth. Soc. Wash. 23(2):152-153.
- Brown, L. N. 1933 "Flooding to control root-knot nematodes" Jour. Agric. Res. 47(11):883-888.
- Brunetti, Beatrice (U. Florence, Italy), and Anna Marinari 1955 "Osservazioni sui nematodi galligeni in Italia. I. Meloidogyne incognita (Kofoid E. White 1919) Chitwood 1949 su radici de tabacco. (Observations on gall-producing nematodes in Italy. I. M. incognita on tobacco roots)" Redia 40:259-267. Nematodes identified as M. incognita were found in badly infected roots of tobacco plants from Salerno. Full descriptions are given of male, female, and larva.
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- Burgis, D. S. and A. J. Overman 1956 "Crop production in soil fumigated with Crag Mylone as affected by rates, application methods and planting dates" Proc. of Fla. State Hort. Soc. LXIX:207-210.
- 1957 "Maintenance practices to be observed following soil fumigation" Proc. of the Shell Nematology Workshop, Orlando, Fla. (81 pp. mimeog) 63-65.
- Cairns, E. J. 1956 "Recent developments to cope with the nematode menace. (Sum.)" Cotton Gin & Oil Mill Press 57(26):21-22.
- Capstick, C. K. 1956 "Lactophenol preparations for soil nematodes" Nature 177(4515):896-897. How to make lactophenol mounts of nematodes.
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- Carroll, J. 1956 "Eelworm and insect pest problems". Journal of the Dept. of Agri. Dublin. 52:44-55. Carroll mentions the potato-root eelworm has already brought to an end the growing of early potatoes in the regions at Rush, etc.
- Chapman, R. A. 1957 "Reaction of species of Nicotiana to species of root-knot nematodes" (abstract) Phytopathology 47(1):5.
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- Chitwood, B. G., C. I. Hannon, and R. P. Esser 1956 A new nematode genus, Meloidodera, linking the genera Heterodera and Meloidogyne Phytopathology 46 (5) 261-266.
- and W. Birchfield 1956 "Nematodes, their kinds and characteristics" State Plant Board of Florida Bulletin II(9):51 pp.
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- 1957 *A new genus Hemicriconemoides (Criconematidae: Tylenchina)* Proc. Helminthol. Soc. Wash. 24(2):80-86.
- and A. C. Tarjan 1957 "A redescription of Atylenchus decalineatus Cobb, 1913 Nematoda: Tylenchinae" Proc. Helminthol. Soc. Wash. 24 (1):48-52.
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- Christie, J. R. 1955 "Identity and distribution of soil nematodes" Florida Agric. Exp. Sta. Annual Report, 102 pages.
- 1957 "The yellows disease of pepper (Piper) and spreading decline of citrus. Pl. Dis. Rptr. 41(4):267-268.
- 1957 "Flant nematode control problems in Florida" (pp.1-7) "Proc. of the Shell Nematology Workshop, Orlando, Fla. (8lpp. mimeo). Lists 6 nematodes as chief plant parasitic forms in Fla., and mentions others, and the role they play.
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- Colbran, R. C. 1955 "A preliminary survey of plant nematodes in Queensland" Journal Australian Inst. of Agric. Science, pages 167-169
- Compton, C. C. and S. H. Benedict 1956 "Nemagon (1,2-dibromo-3-chloropropane) a soil fumigant" Agric. Chemicals 11(3):46-47, 125-126. This is a popular account of the uses of Nemagon as a nematicide.
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- 1957 "Bulbous iris. bulb and stem nematodes" Handbook on Bulb Growing and Forcing, pages 6 & 7. Re: symptoms and control. no species mentioned.



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- Cralley, E. M. 1956 "A new control measure for white tip." Ark. Farm Res. 5(4):5. Foliar disease of rice caused by Aphelenchoides oryzae.
- 1957 "The effect of seeding methods on the severity of white tip of rice" (abstract) Phytopathology 47(1):7
- Crittenden, H. W. 1951 "Reducing nematode damage to truck crops through soil treatment, rotations and resistant varieties" 65th Trans. Peninsula Hort. Soc. 65-70. DD
- 1955 "Control of Meloidogyne incognita var. acrita (a species of root knot nematode) by crop rotations" Del. Bd. Agr. B. 45(5):20.
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- Darby, J. F. 1957 "Soil preparation prior to soil fumigation" Proc. of the Shell Nematology Workshop, Orlando, Fla. (8lpp. mimeo) 61-62.
- Darling, H. M. 1957 "Control of the potato rot nematode in Wisconsin (abs.)" Phytopathology 47(1):7.
- Darling, H. M., L. R. Faulkner and P. Wallendal 1957 "Culturing the potato rot nematode (abs.)" Phytopathology 47(1):7.
- Daulton, R. A. C. 1955 "Progress report on eelworm control experiments" 1955 Rhodesian Tobacco (11):21-24. Rotation crops on tobacco.
- Davidson, J. H. 1957 "Rapid vaporization of methyl bromide in treatment of seedbeds, for turf renovation and other uses." Down to Earth (Dow Chem. Co.) 13(2): 6-9.
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Dijkstra, J. 1956 *Experiences with the breeding of red clover resistant to the stem eelworm (Ditylenchus dipsaci)* Euphytica 5:298-307.

Doliwa. U. 1956 *Experimentelle Untersuchungen an Kartoffelnematoden (Heterodera rostochiensis Wollenweber) Wissenschaftliche Zeitschrift der Universitat Rostock 5:133-149. The author tested 30 vital stains for their effects on living and dead larvae of H. rostochiensis. The basic dye crystalline chrysoidin was shown to stain dead larvae a diffuse lemon yellow, while in living larvae it stained intestinal granules brownish-yellow to orange but the rest of the body remained colourless. These results were obtained whether larvae were killed by heat or by chemicals. & whether they were within the egg-shell or outside it. The stain is not toxic at the concentrations used, namely 1: 20,000 to 1: 50,000, but it takes 19 hours to stain free larvae, 24-36 hours for larvae in eggs & at least 3 days for larvae within cysts. Using chrysoidin for testing viability it was shown that, in water, eggs & cysts were killed in 4 hours at 40°C., in 40 minutes at 50°C & in 5 mins. at 60° C. Free larvae were killed in 2 1/4 hours at 40° C in 15 mins. at 50°C & in 5 mins. at 60°C. For air dried cysts, 60 hours at 60°C proved lethal while at 50°C larvae were still alive in the cysts after 4 days. Study of the chemical nature of the cyst wall, larval cuticle & egg membrane showed them to be protein: no chitin was found. Nematode eggs in 0.1% potassium permanganate hatched after 6-8 hours, whether alive or dead. It is concluded that oxidation of substances in the egg membrane enables the larvae to break out. Subsequent movement of the larvae is a secondary phenomenon & is not a pre-requisite for hatching. A number of dyes & salts of heavy metals were tested for toxicity to potato eelworm larvae. Methylene blue & malachite green at concentrations of L: 2,000 to 1: 10,000 were lethal in 2μ hours. Silver nitrate killed hatched larvae in $5\frac{1}{2}$ hours at a concentration of 1: 107. A silver coin in a suspension of larvae caused their death in 2-3 days. The other metals were ineffective at the concentrations tested, except mercuric chloride, which was toxic in 24 hours at a concentration of 1: 104.

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and Campana- Rouget, Y. 1956 "Une Nouvelle Espèce D' Ascarophis (Nematoda, Spriurinae) Chez Gadus Luscus L. Revision Du Genre" Annales de Parasitologie 31(4):385-404.

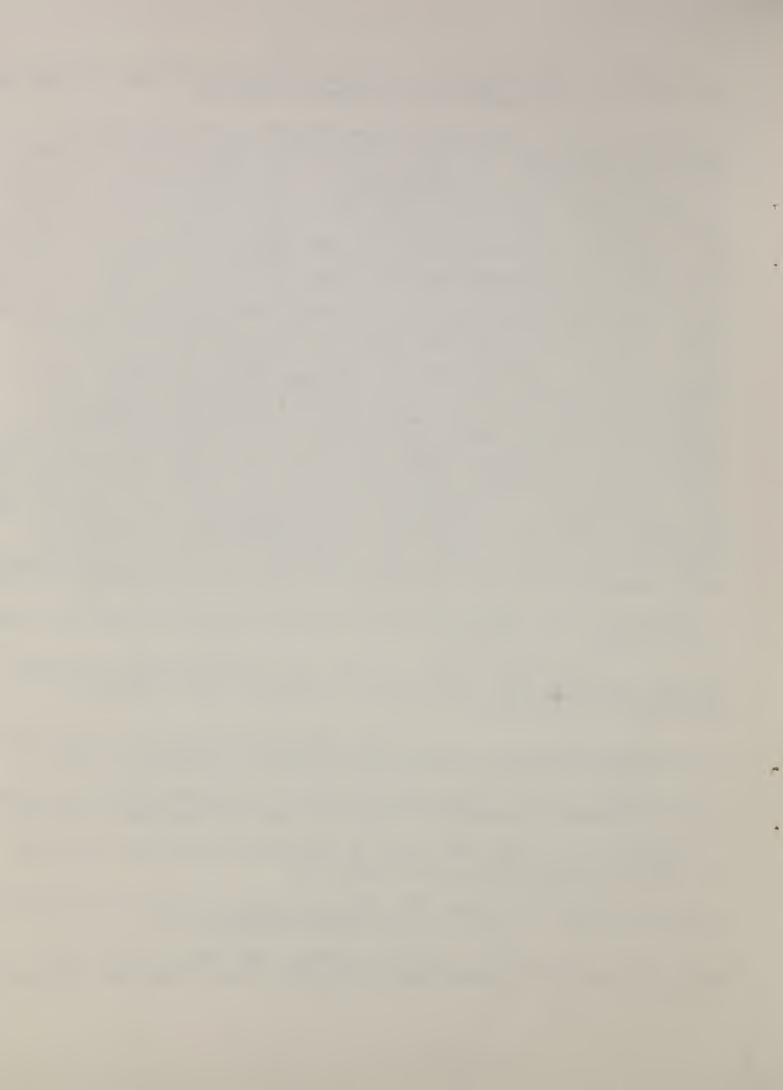
De Coelacanthes Memoires De L'Institut Scientifique De Madagascar 11:33-41.

Doncaster, C. C. 1957 *Growth invasion and root diffusate production in tomato and black nightshade inoculated with potato-root eelworm* Nematologica 2(1):7-15.

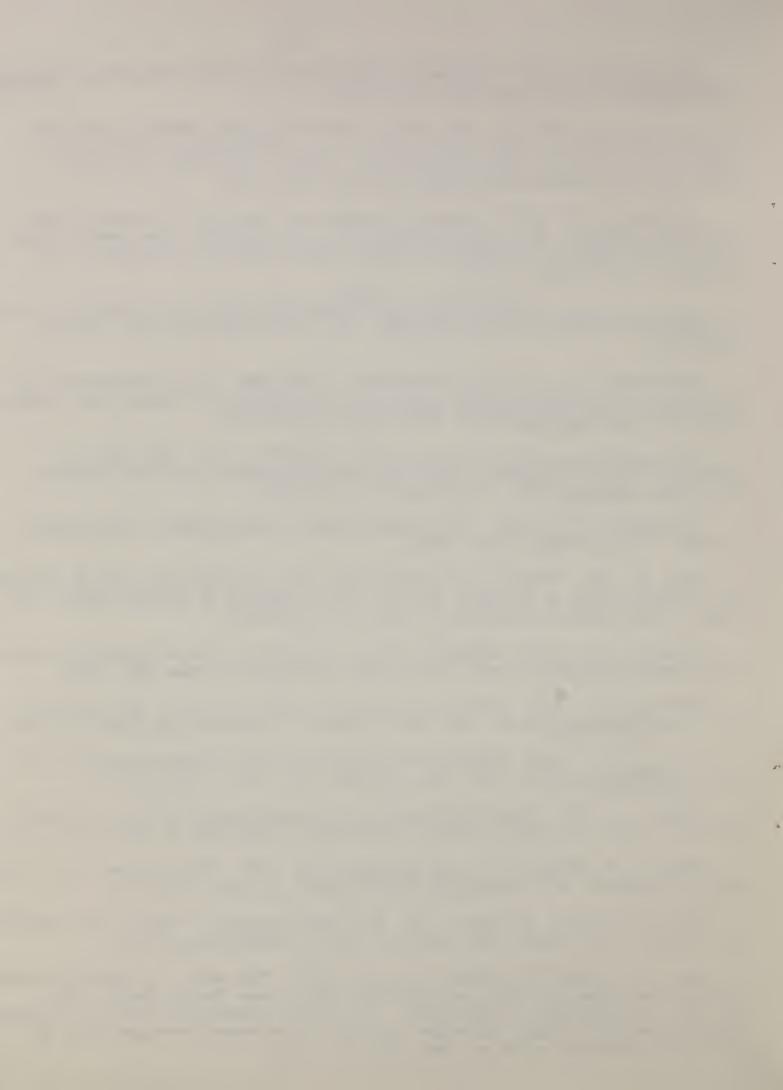
Dougherty, C. E. 1953 The genera of the subfamily Rhabditinae Micoletzky, 1922 (Nematoda) Thaper Commemoration Volume 69-76

Drolsom, P. N. & E. L. Moore 1955 "The interaction of certain tobacco varieties and plant parasitic nematodes" Pl. Dis. Reporter 39(10):703-704

and E. E. Clayton 1957 "Resistance to two Meloidogyne species in breeding lines of flue-cured tobacco" Phytopath. 47(5):312



- Dropkin, V. H. 1957 "A method for determination of the infectivity of Heterodera rostochiensis larvae" Nematologica 2(1):72-75
- and R. C. King 1956 "Studies on plant parasitic nematodes homogeneously labelled with radiophosphorus" Exp. Parasitology 5(5):469-480. A study was made of the volume and phosphorus content of root knot and golden nematodes during differential stages in their life cycles.
- Du Charme, E. P. 1955 "Sub-soil drainage as a factor in the spread of the burrowing nematode" Proc. Florida State Hort. Soc. 68:29-30. The lateral spread of burrowing nematode R. similis in Florida citrus groves is influenced by the movement of soil water.
- and Birchfield, W./ "Physiologic races of the burrowing nematode in relation to citrus spreading decline" Proc. of Florida State Hort. Society LXIX:42-44
- Duddington, C. L., F. G. W. Jones and T. D. Williams 1956 *An experiment on the effect of a predacious fungus upon the soil population of potato root eelworm, Heterodera rostochiensis Woll.* Nematologica 1(4):341-343
- and F. Moriarty 1956 *The effect of predactions fungus and organic matter upon the soil population of beet eelworm, Heterodera schachtii Schm. Nematologica 1(4):344-348
- Duddington, C. L. 1957 "The friendly fungi, a new approach to the eelworm problem" London, Faber & Faber 188 p.
- Dunn, E. 1957 "Cereal root eelworm" Scot. Agr. 36(3):146-148, The distribution and economic effect of H. major, the life cycle, symptoms on attacked plants, the range of host plants and methods of control are discussed.
- Dunnett, J. M. 1956 "Embedded cysts" in relation to the utilization of potato root eelworm resistance" Roslin. Scot. Plant Breeding Sta. Annu. Rpt. 50-56
- Edwards, E. E. 1955 "Further observations on the occurrence of nematodes of the genus Meloidogyne in the Gold Coast" Journal of Helminthology XXIX(3):153-170.
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- Ellis, D. E., Wells, J. C. and Winstead, N. N. 1957 "Control root-knot in the vegetable garden" N. C. State Agr. Col. Ext. Ext. C. 337, rev., 15 p.
- Endo, B. Y. and J. N. Sasser, 1957 "The effectiveness of various soil fumigants for control of the soybean cyst nematode (abs.)" Phytopathology 47(1):9
- Eno, C. F., Blue, W. G. Good, J. M., Jr. 1955 "The effect of Anhydrous Ammonia on Nematodes, Fungi, Bacteria, and Nitrification in some Florida Soils" Soil Sc. Soc. of America Proc. 19(1):55-58. The authors treated field plots by applying anhydrous ammonia through knife-type injectors and extracted nematodes from the soil by the Baermann method and then identified them.



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European and Mediterranean Plant Protection Organization 1955 "Heterodera rostochiensis Woll. potato root eelworm, Europe, Mediterranean Basin, 1955, 18 p.

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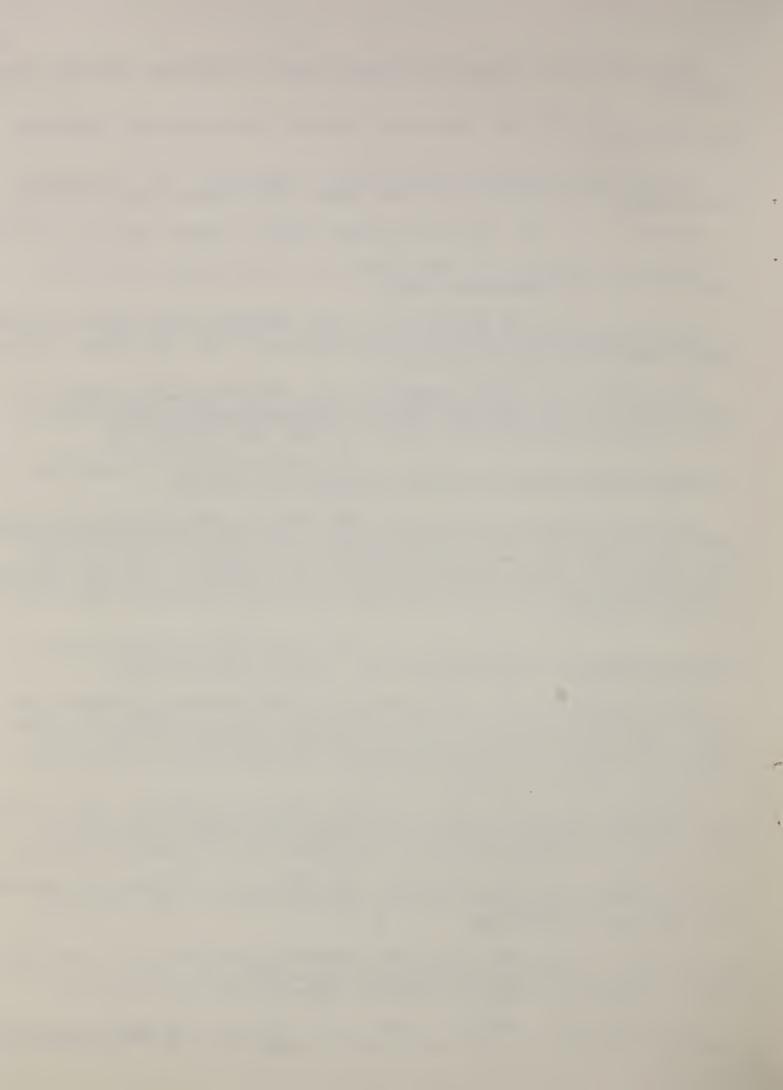
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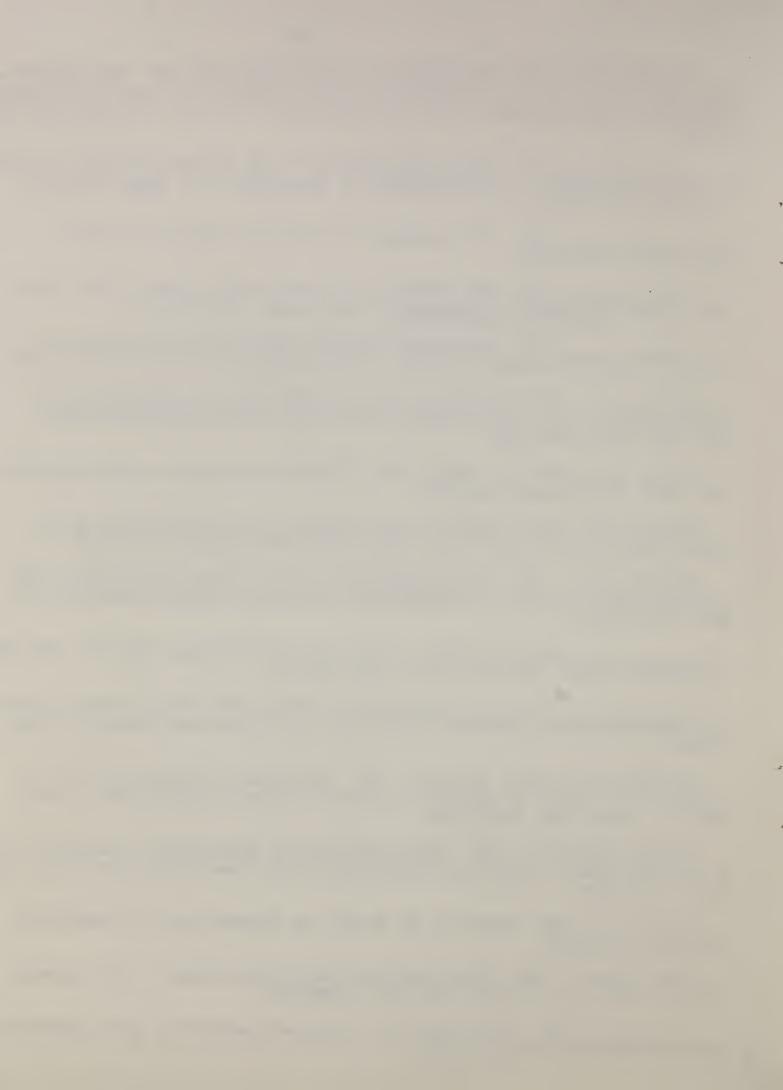
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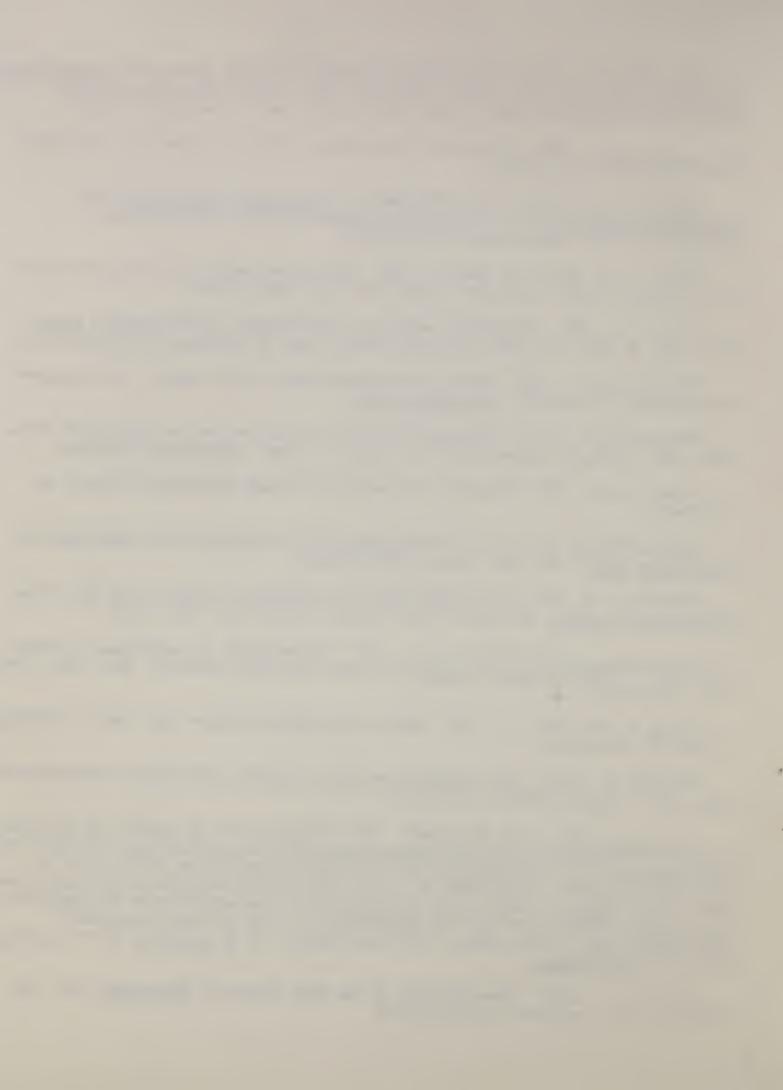
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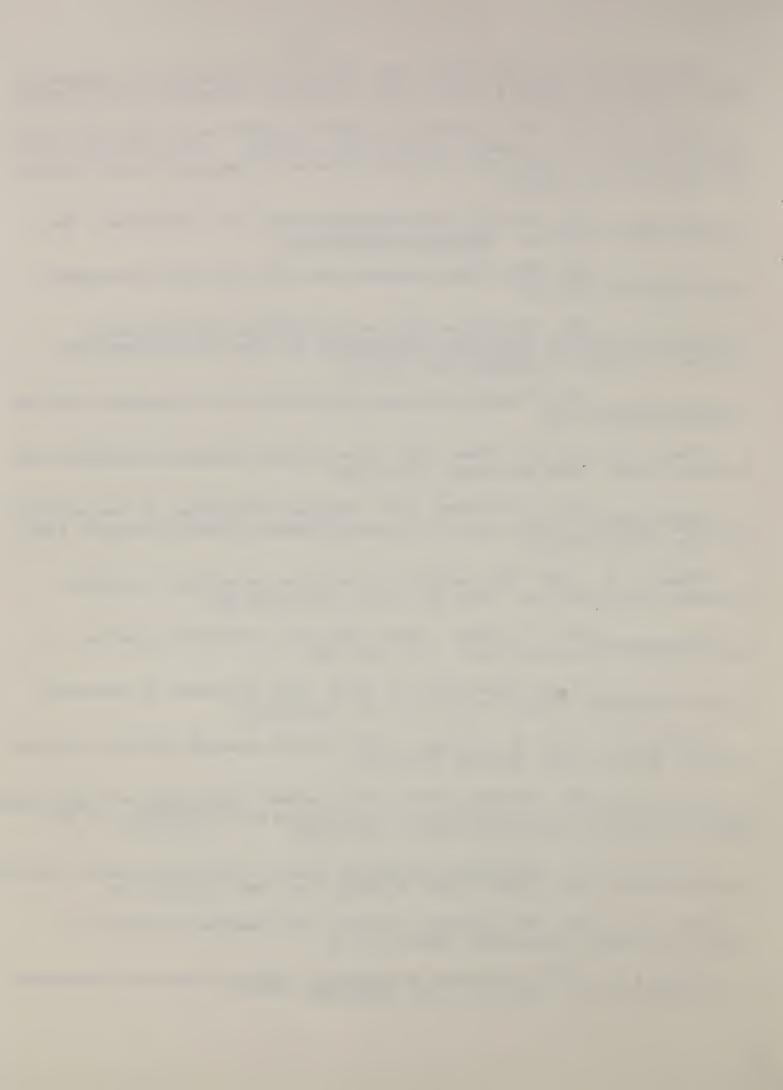
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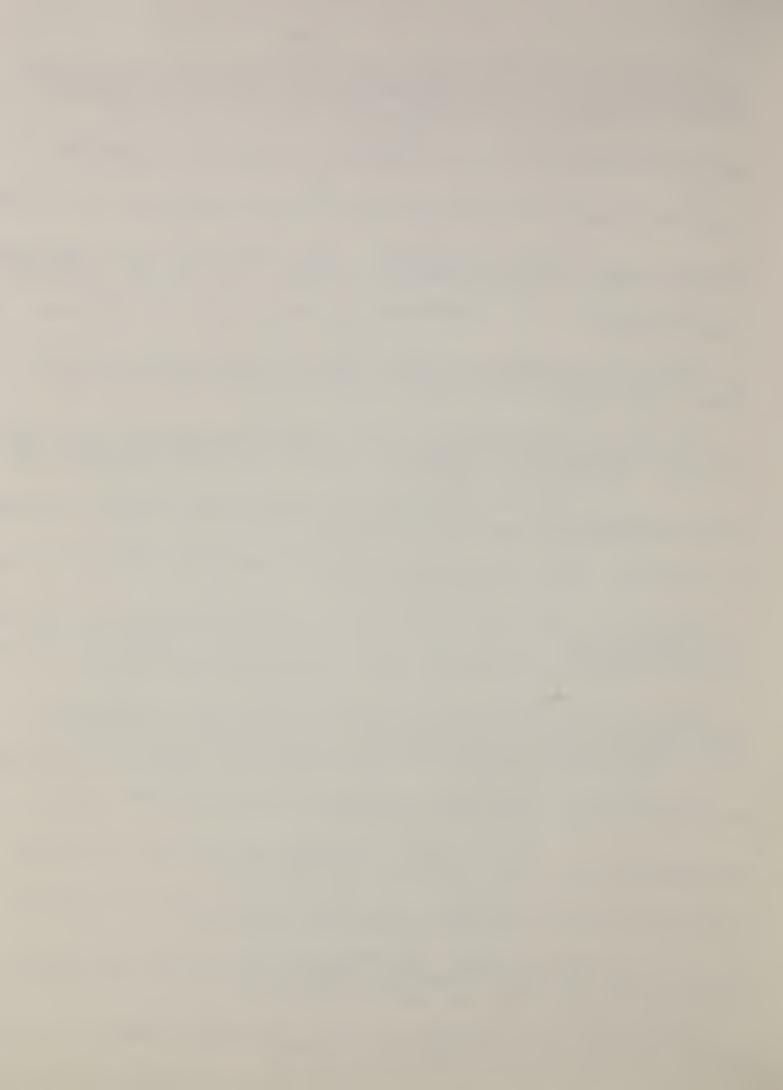
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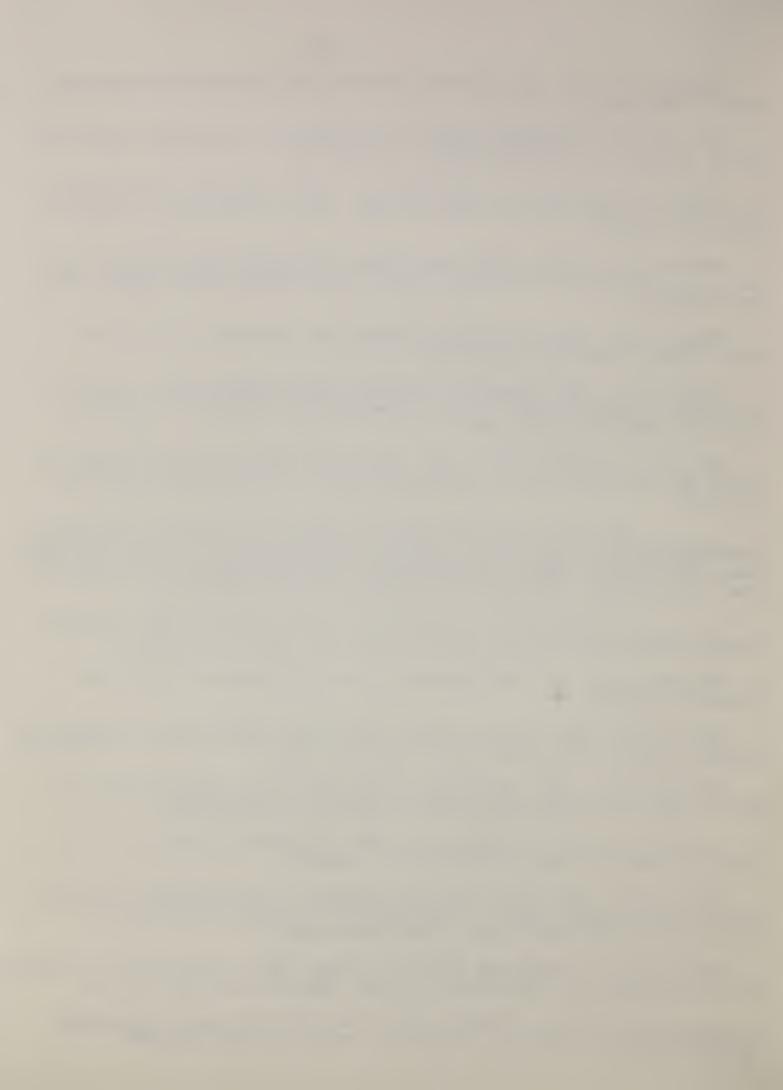
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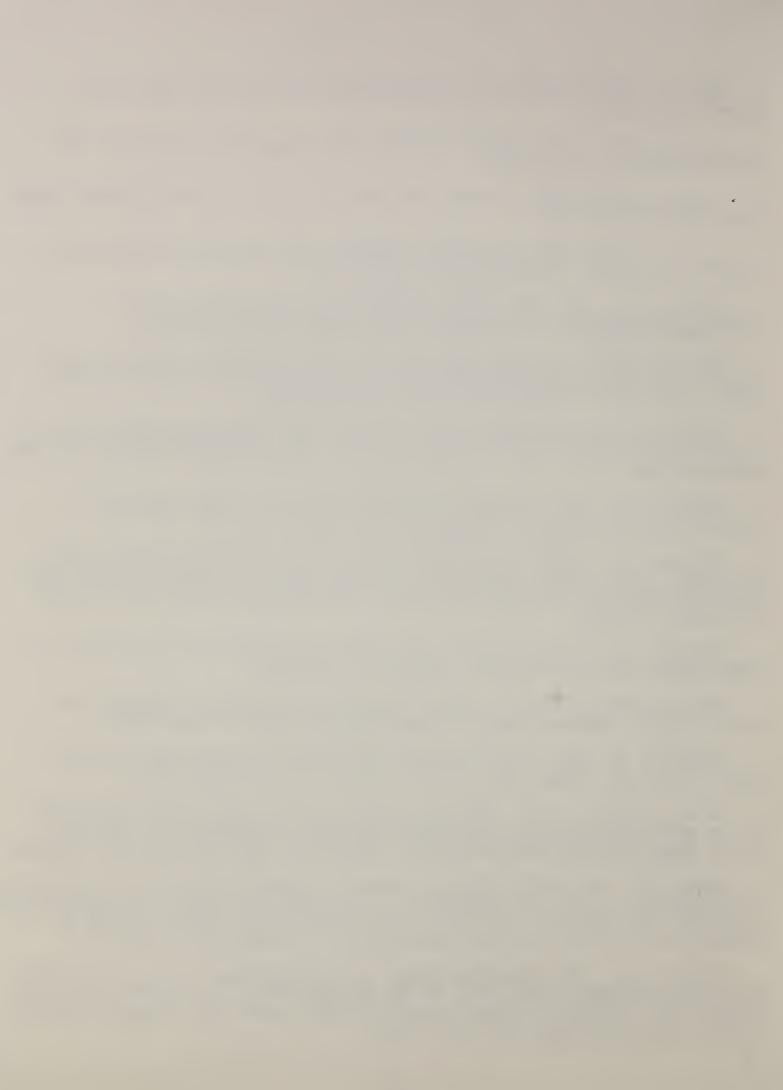
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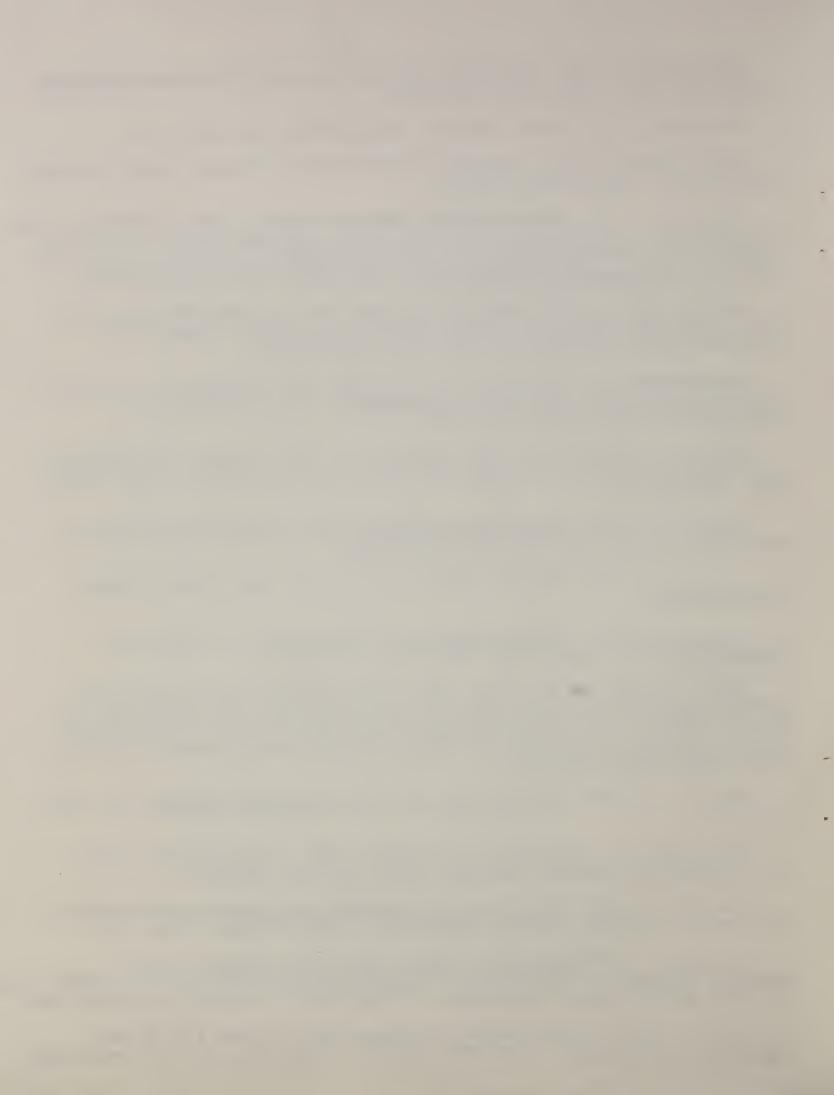
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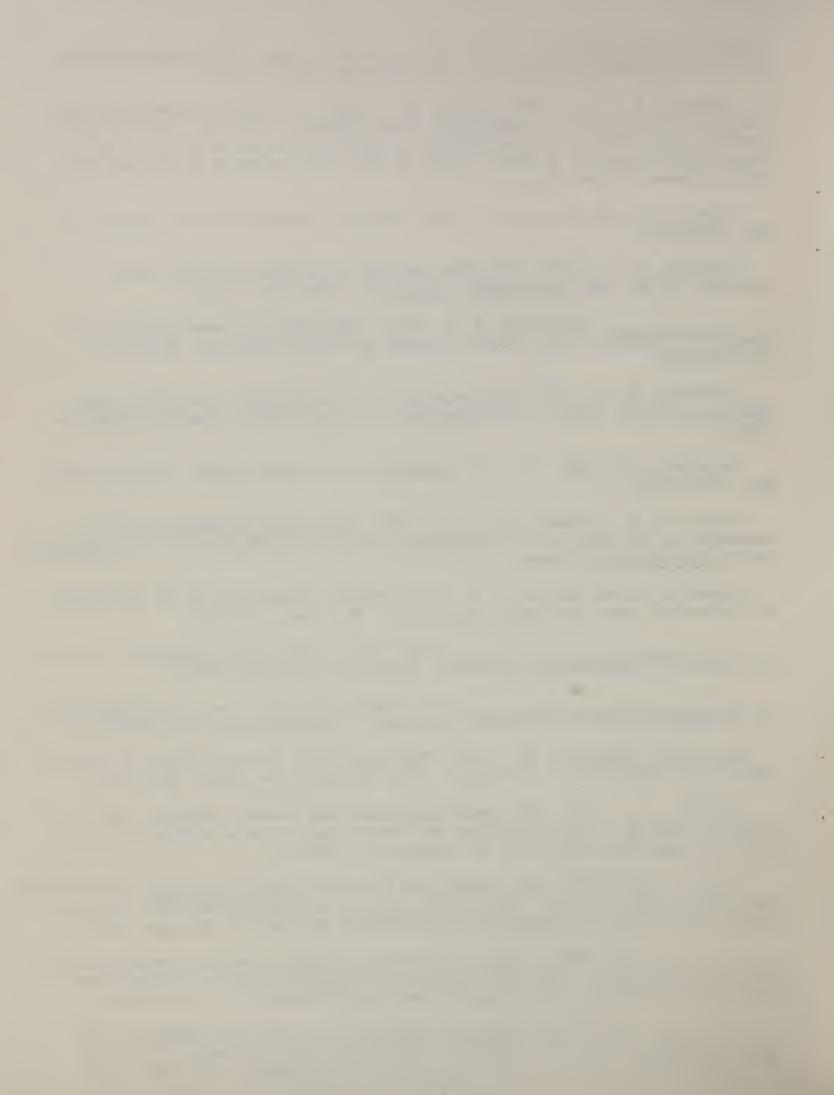
Roters, 1955 Das nematodenproblem muss beachtet werden! Deut.

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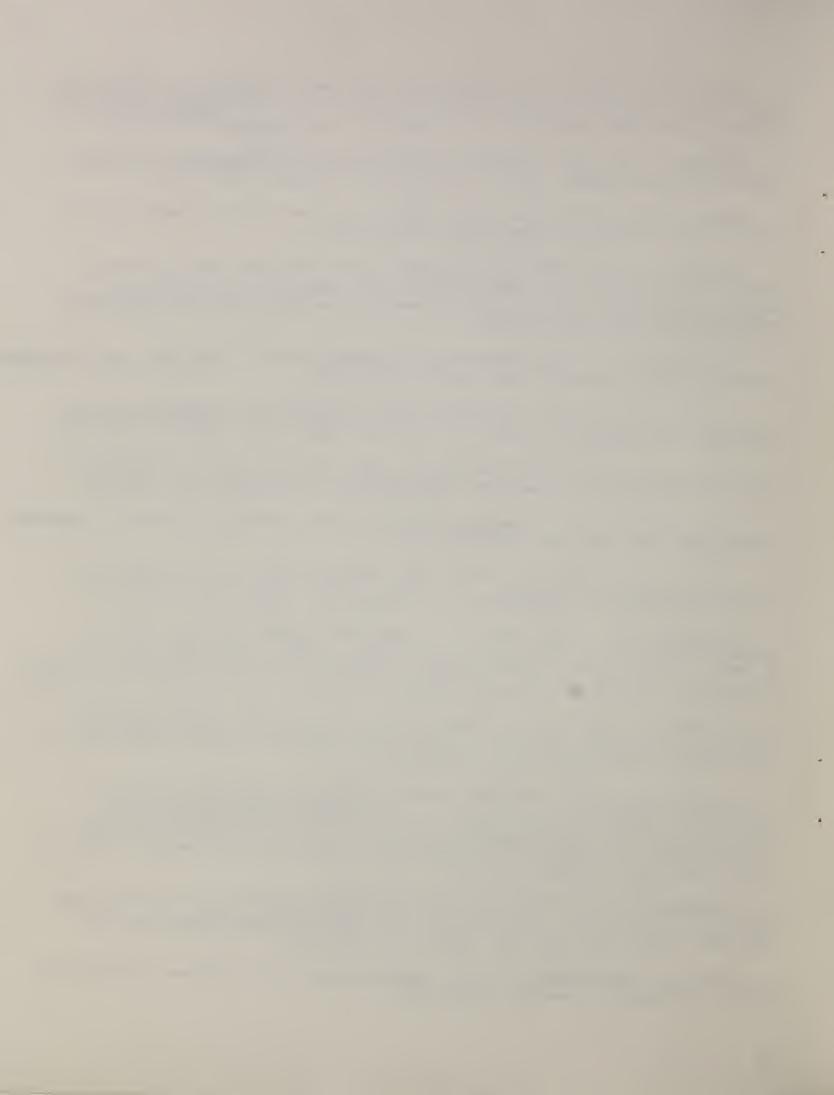
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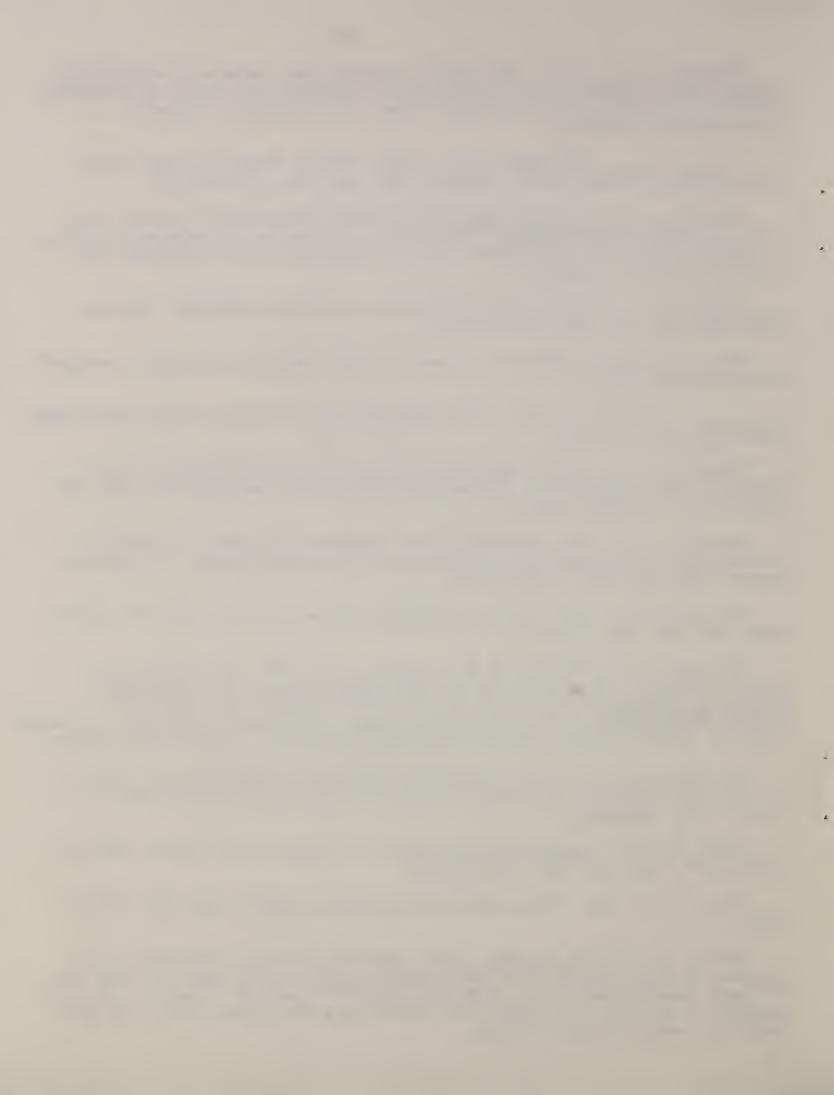
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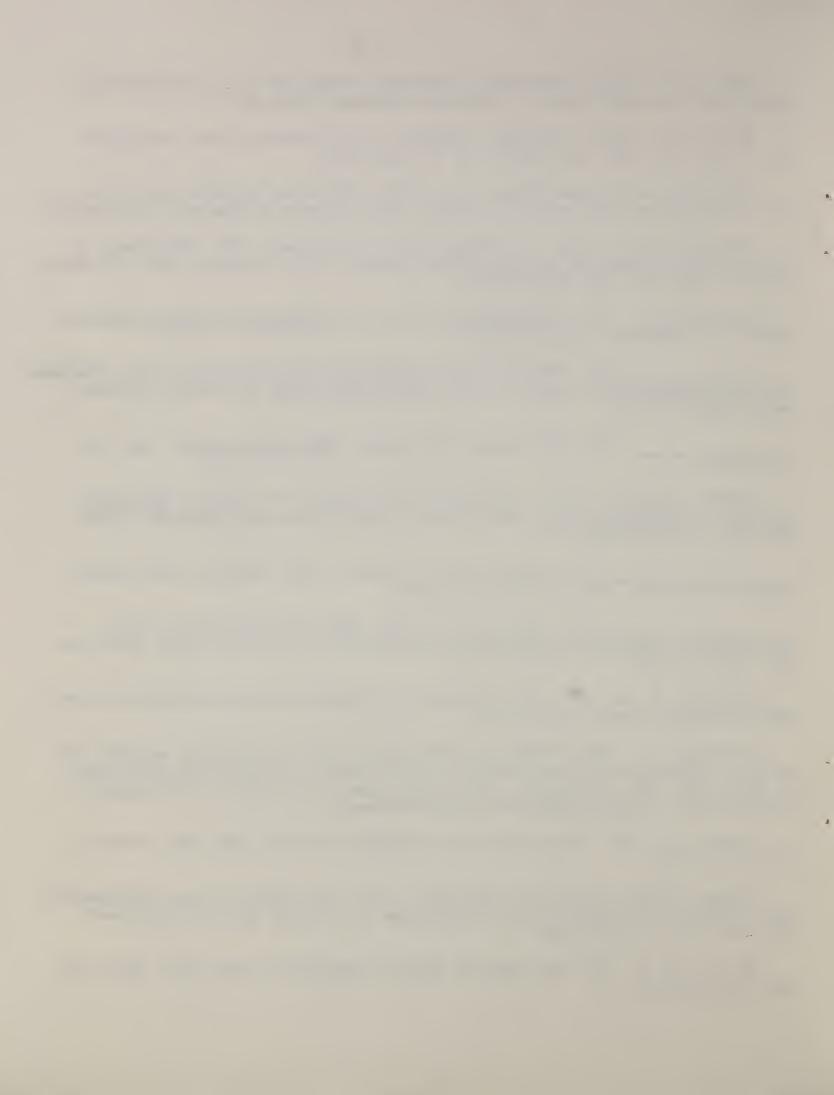
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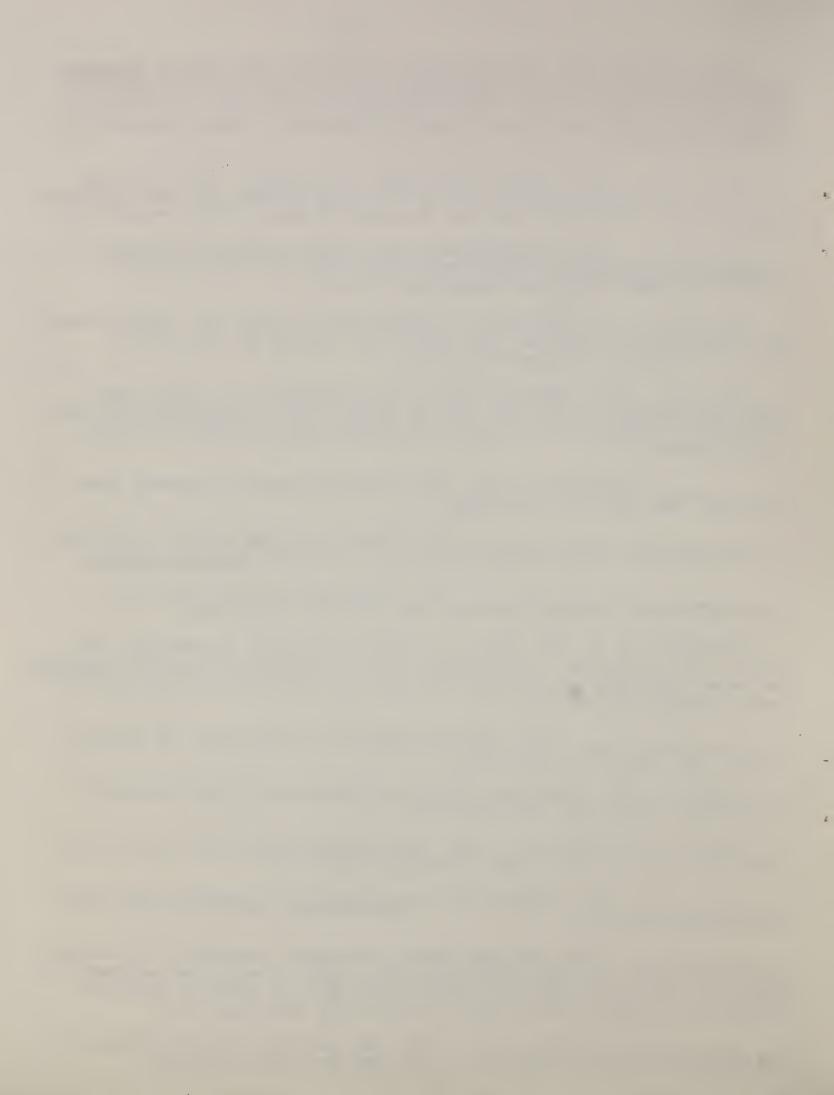
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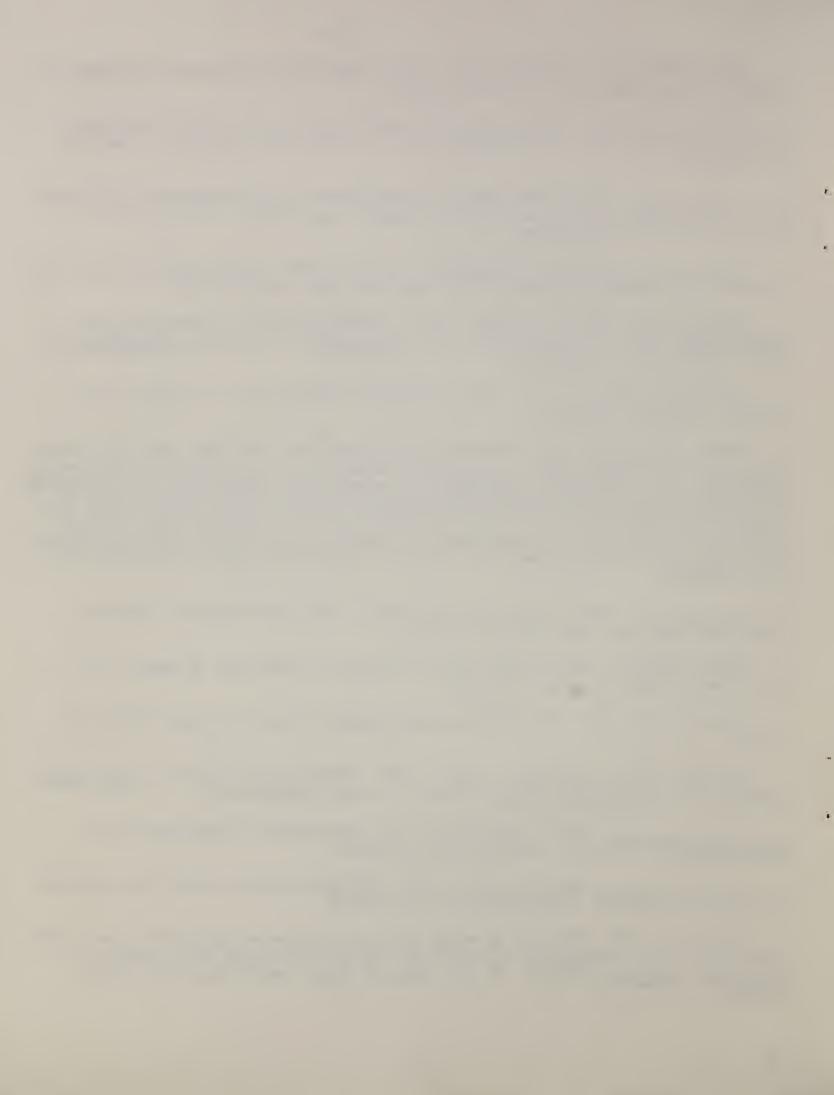
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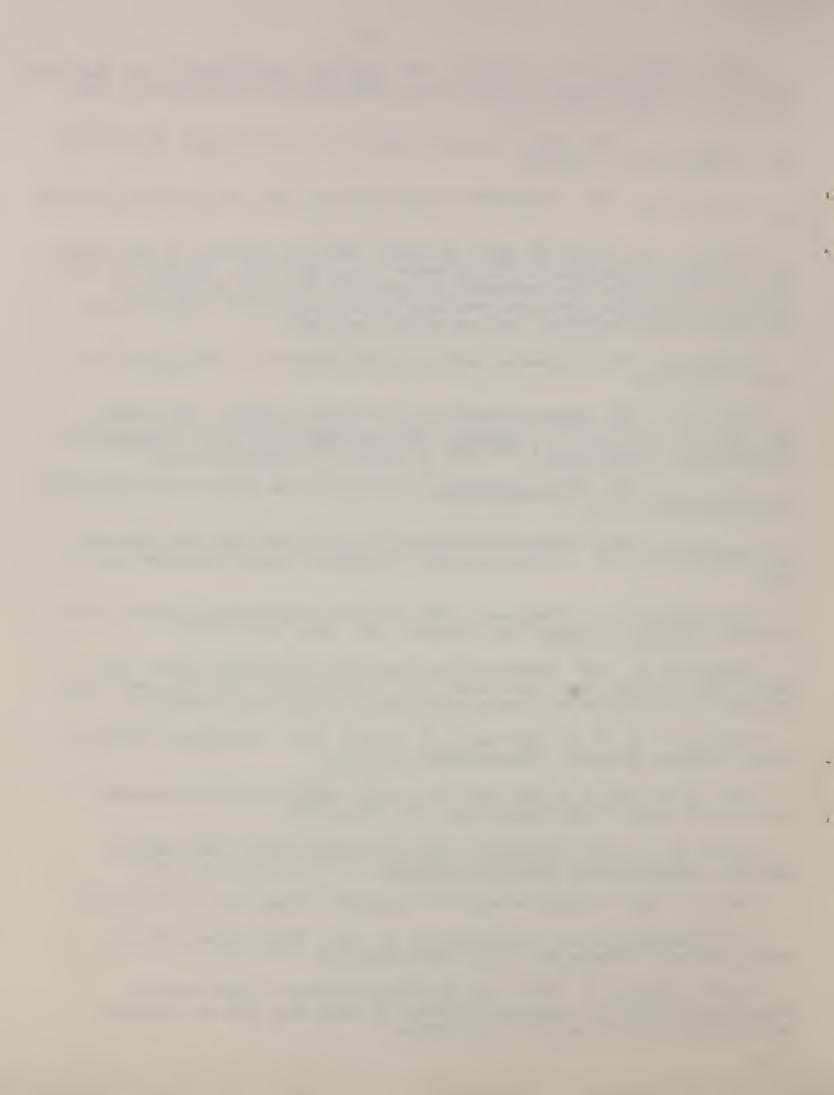
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